05 SEPTEMBER 2002

SECTION C

STATEMENT OF WORK

FOR SOFTWARE UPGRADE OF THE

M94 CONVENTIONAL MUZZLE VELOCITY SYSTEM (MVS)

AND

MVS COMMUNICATION ADAPTER (MCA)

Prepared by

TANK-AUTOMOTIVE & ARMAMENTS COMMAND - ROCK ISLAND

CENTER FOR FIELD ARTILLERY & MORTAR SYSTEMS

AMSTA-LC-CSFQ

C.1. SCOPE.

C.1.1. Definition. This statement of work defines requirements for upgrading the M94 Conventional MVS and MCA software and resulting changes to technical manual TM 9-1290-364-14&P.

C.1.2. Objective. The contractor shall modify the current M94 MVS and MCA embedded software that meets V11 system requirements to meet V7 requirements.

C.1.3. Description. The M94 MVS measures the velocity of projectiles fired from a variety of artillery systems. The MVS permits data to be recorded, associated with relevant firing parameters such as propellant temperature, and normalized in accordance with associated Fire Control Input (FCI). The Muzzle Velocity Communications Adapter (MCA) when connected to the Gun Display unit (GDU) at the artillery weapon will perform the required interface to enable the automated operation and data transfer between the Battery Computer System (BCS) and the M94 MVS. The M94 embedded software meets army requirements, as they existed at time of purchase.

C.2. APPLICABLE DOCUMENTS.

C.2.1. Military Specifications.

> None.

C.2.2. Military Standards. These documents are intended for use as guidance only. This direction is not intended to specify the methods to be used, but only to specify required results.

> None.

C.2.3. Military Handbooks. These documents are intended for use as guidance only. This direction is not intended to specify the methods to be used, but only to specify the required results.

> MIL-HDBK-1221   Department of Defense Handbook for Evaluation of Commercial
>   Off-the-Self Manuals

C.2.4. Industry/Commercial. These documents are intended for use as guidance only. This direction is not intended to specify the methods to be used, but only to specify the required results.

> IEEE/EIA 12207   Industry Implementation of International Standard
>   ISO/IEC 12207: 1995
>   Standard for Information Technology
>   Software life cycle processes
>
> EIA/IS-649   National Consensus Standard for Configuration Management

C.2.5. Regulations.

> None.

C.2.6. Other.

FCI - Appendix 4 for each projectile

Package 7x

FS V7.0 Requirements Definition Document (RDD) For Fire Support Version 7.0 - 31 October 2000 (Draft)

Appendix H

SS-SS-0002-SRS, 4 January 1991 Rev. F: 30 June 1999 (Draft) Interface Requirements Specification For Battery Computer System And M94

Abridged Annex to the Software Requirements Specification for NATO Artillery Ballistic Kernel-Advanced Field Artillery Tactical Data System (NABK-AFATDS) NABK Release 3.02 AFATDS Version 7; Supported Weapons, Projectiles, Fuzes and Propelling Charges Version 1.11, Dated 8 May 2002

C.3. REQUIREMENTS.

C.3.1.   Program Management. An Integrated Product Team (IPT) structure and management process shall be used. The contractor shall lead the IPT and include Government membership and other personnel the contractor determines to be appropriate. Government membership shall include TACOM-RI CBU, TACOM-ARDEC (Fire Control Hardware/Software, Software Quality Engineering) and the U.S. Army Field Artillery School (USAFAS) at Ft Sill, OK.

C.3.1.1. Program Reviews.

C.3.1.1.1. Software Specification Review (SSR). The contractor shall conduct a software specification review to address the maturity of requirements, validate the software requirement specification, and establish the qualification provisions for verifying the requirements. At the SSR the contractor shall provide a detailed description of the software management and development process (see paragraph C.3.2.) to be employed as well as an integrated master schedule, which addresses all elements of the SOW. The SSR may be conducted in a fashion conducive to conservation of resources for all parties.

C.3.1.1.2. Interim Status Review. The contractor shall conduct Interim Status reviews. Agenda items for each defined review shall include: technical progress, Risks identified as well as Risk Mitigation. Reviews shall be held at TACOM ARDEC, Picatinny Arsenal. The government and the contractor shall agree on schedule and format at contractor award.

C.3.1.1.3. Final Review. Final Review shall be a Test Readiness Review prior to Formal Qualification Testing of the software. (Refer to C.3.2.6.1.)

C.3.2. Software Engineering. The contractor shall upgrade the M94 MVS/MCA resident software program and database to comply with Field Artillery Tactical Data System (FATDS) interface Package 7 requirements. Package V7 consists of new weapons/rounds/munitions/propellants/fuzes as specified in Requirements Summary List (RSL) for Package 7, and new MVV computation and data management requirements. The upgraded software shall accommodate all necessary message composition/ decomposition, screen displays and prompts, ammunition selection and data entries. Software engineering shall be IAW a defined process (ref: IEEE/EIA 12207)

C.3.2.1. Fire Control Input (FCI). The contractor shall incorporate changes necessary to be consistent with Fire Control Input FCI Appendix 4 For Each Projectile.

C.3.2.2. Requirements Summary List (RSL) for Package 7. The contractor shall incorporate changes necessary to support Package 7 RSL requirements:

C.3.2.2.1. Mandatory Requirements. The minimum requirements to be implemented are:

Remove:
a. M101
b. M101A1
c. M108
d. M109A1
e. M109A1B
f. M109A2
g. M109A3
h. M109A4
i. M110A2
j. M114A2
k. M52
m. M52A1

n. M314A3, 105mm illumination projectile
o. M485A1/A2/A3 155mm illumination projectile
p. 105mm M60 Gas Projectile
q. 105 mm GAS Gas Projectile
r. 105mm H Gas Projectile
s. 105 mm HD Gas Projectile
t. 105mm M360 Gas Projectile
u. 105mm GAS Gas Projectile
v. 105mm GB Gas Projectile
w. 155mm M110 Chemical Projectile
x. 155mm GAS Chemical Projectile
y. 155mm H Chemical Projectile
z. 155mm HD Chemical Projectile
aa. 155 M121A1 Chemical Projectile
ab. 155mm GAS Chemical Projectile
ac. 155mm GB Chemical Projectile
ad. 155mm VX Chemical Projectile
ae. 155mm M687 Chemical Projectile
af. 155mm BINARY Chemical Projectile
ag. 155mm GB2 Chemical Projectile

Add:

ah. Modular Artillery Charge System (MACS) propellant - M231, M232
ai. Lightweight Howitzer XM777
aj. M782 (MOFA) and M762A1/M767A1 fuzes
ak. Incorporate Software Version Table

C.3.2.2.2. Potential Requirements. The government may add contract requirements depending on memory availability and sufficiency of funding. By descending priority, these requirements include any or all of the following:
  a) Add 155 mm Remote Area Denial Artillery Munitions (RADAM) projectiles (M1023 M1024, M1025 and M1026)
  b) Add 105 mm, M927 Projectile
  c) Add 105 mm, M915 and M916 Projectiles
  d) Add NATO ammunition
  e) Add the mnemonic ILB for Denmark and the Netherlands projectile NR109 and ILC for Denmark projectile M485E2
  f) Add M4A1 propellant for US
  g) Add DM 52 propellant for Germany

C.3.2.3. [Deleted]

C.3.2.4. Interoperability. The contractor shall incorporate all required software modifications without change to existing interface requirements of the Battery Computer System (BCS) specified in Appendix H of SS-SS-0002-SRS, 4 January 1991 Rev. F: 30 June 1999 (Draft) Interface Requirements Specification For Battery Computer System and M94, in order to maintain interoperability between the BCS and GDU.

C.3.2.5. Specifications. The contractor shall provide a Software Requirements Specification (SRS) IAW CDRL A001 (DI-IPSC-81433A) for the upgraded M94/MCA embedded software. This document shall be used in assisting the government in the preparation of a logical and complete test suite to be used in Formal Qualification Testing.

C.3.2.6. Design and Development. The contractor shall perform all necessary design, coding, unit and integration testing required for upgrading the M94/MCA software.

C.3.2.6.1. Development, Integration and Evaluation Environment. The contractor shall identify all necessary tools (hardware and software) and environments for design, coding and unit and integration testing IAW CDRL A002 (DI-ILSS-80294A). The government will assess contractor's requirements to determine feasibility of offering above environments at TACOM-ARDEC for the contractor's consideration. The government will respond in detail regarding the feasibility within 10 working days of receipt of the list.

C.3.2.7. Software Formal Qualification Testing (FQT). The contractor shall support Government performance of software FQT. The contractor will work with the Government (TACOM-ARDEC) in developing the software FQT test plan and test description (acceptance procedures). The contractor shall define all necessary equipment, software, and facility requirements required to establish a test lab (system level bench test setup) for the purpose of conducting software FQT prior to conducting the Software Specification Review IAW CDRL A002 (DI-ILSS-80294A).

C.3.2.7.1. Interface Definition. The contractor shall provide an Interface Requirements Specification (IRS) IAW CDRL A003 (DI-IPSC-81434A). This shall define the interface between the Control Processor Display Unit (CPDU) and the transceiver to enable the government to build a driver for the CPDU.

C.3.2.7.2. Software FQT Readiness Review. The contractor shall support the Government in preparing for software FQT Readiness Review chaired by TACOM-ARDEC. The Readiness Review will status results of integration testing, address the maturity of the software, resources and schedule for conducting software FQT. This review shall serve as a final status review of the software development effort

C.3.2.7.3. Functional Physical Configuration Audit/Physical Configuration Audit (FCA/PCA). The contractor shall support government execution of a software FCA/PCA following the completion of FQT.

C.3.2.8. Software Independent Verification and Validation (IV&V). The contractor shall make available for review both process and product artifacts generated as part of this development effort. To the maximum extent practical, the government IV&V Team will perform these reviews on a non-interference basis.

C.4. SOFTWARE DELIVERABLE.

C.4.1. Software. The contractor shall deliver fully functional and tested M94 executable and source code software, unique download equipment and all associated documentation required to field and maintain the delivered baseline IAW CDRL A004 (DI-IPSC-80590A). The contractor shall identify the software vendor and version used to compile the source code.

C.4.2. Government Reproduction Rights. The Government reserves the right to copy and distribute the delivered CDs for Government use only.

C.5. CONTRACTOR SUPPORT.

C.5.1. Testing Support. The contractor shall support government interoperability testing and facilitate the resolution of all identified problem(s). Problems identified by the government will be identified through (Problem Change Reports (PCRs). The contractor will have 5 days after notification of the PCR to address the PCR and identify corrective actions if required. It is anticipated that interoperability testing will last 5 weeks and will comprise the following:

Dry Runs	1 week
Formal Qualification Testing	2 weeks
Regression Testing	1 week
FCA/PCA	1 week

C.5.2. Live Fire Test. The contractor shall support the verification of MACS compatibility through live firing using M109A5, M198 & XM777. Live Fire will be conducted at Yuma Proving Grounds, AZ and will last approximately 2 weeks.

C.5.3. Incremental Software. The contractor shall support U.S. Government with incremental software builds. It is anticipated that a minimum of 3 software builds will be required for this effort comprising:

Initial Dry Run Build
Formal Test Build
Regression Build

C.6. INTEGRATED LOGISTICS SUPPORT.

C.6.1. Utilities Update.

The contractor shall update the following current M94 MVS/MCA Software Utilities Programs to reflect the software changes cited in this SOW and deliver IAW CDRL A004 (DI-IPSC-80590A).

       a. PF67012428 – MCA Editor
       b. PF67012425 – M94 FCI Database Editor
       c. PF67012426 – M94 Remote Control
       d. PF67012424 – M94 MVV Editor
       e. PF67012423 – M94 Upload/Download

C.7. TECHNICAL MANUALS (TM).

C.7.1. Changes. The contractor shall deliver changes to TM 9-1290-364-14&P, dated 15 Dec 2001 w/Change 1, resulting from execution of this SOW IAW CDRL A005 (DI-TMSS-80527A). Resulting changes (indicated as "Change 2") shall be delivered IAW the attached 'Extract from MIL-STD-40051A (TM).' Changes shall be in proper sequence using illustrations, point (.) pages and paragraphs. The basic TM incorporating Changes 1 & 2 shall be delivered IAW CDRL A005.

MIL-HDBK-1221 is for reference only.

C.7.2. Validation/Verification (Val/Ver). The contractor shall perform a combined validation/ verification of changes to the technical manual resulting from software changes necessitated by this statement of work. The VAL/VER shall be performed at the contractor's facility (Borisch Manufacturing) in Grand Rapids, Michigan to ensure that all necessary changes affecting text and screens are incorporated into the TM. The contractor shall notify the Government of the scheduled Val/Ver in order for Government personnel to participate in the process. The contractor shall maintain a record of any discrepancies noted during the Val/Ver, with copies provided to the government for purposes of ensuring that the contractor makes necessary corrections to the final document prior to acceptance by the Government. The contractor shall then make the necessary corrections and provide the final copy IAW CDRL A005.

4.10. Changes. When updates to technical manuals are ordered the deliverable product shall be changed pages or a complete revision of the TM.

4.10.1. Changes for page-based TMs. A change is used to incorporate appropriate new information (for example, MAC changes, Modification Work Orders (MWO), engineering drawing changes, DA Forms 2028, etc.) into the basic TM (or previous edition) or clarifies, corrects, or improves existing information in the TM. The change will be written in the same style and format as the basic manual.

4.10.1.1. Changes. Changes shall consist of a change transmittal page and the applicable change pages. For the content and format of a change transmittal page:

   a. Each change to a TM shall be numbered in sequence beginning with 1.
   b. Front matter, and rear matter change pages shall conform to the style and format of the basic TM and shall incorporate all approved information.
   c. Changes to front and rear matter pages and all pages of a change shall include the applicable change number located on the outer edge of the page opposite the binding side.

4.10.1.2. [Deleted]

4.10.1.3. Changed front and rear matter pages. When updates to the front and rear matter of a TM are required, only the effected pages shall be revised and reissued. Copy shall be prepared for both sides of the printed page on which an update is made, even when an update is made to one side only.

4.10.1.4. Change symbols. Change symbols shall be inserted to identify technical updates in text, illustrations and tables.

   a. Updates to the text and tables shall be indicated by a vertical line (change bar) opposite the updated, deleted, or added text (except as noted below). The change bar shall be placed in the margin opposite the binding edge.
   b. When tables are updated or added, the change bar shall also be placed to the left of the table number and title.
   c. The method(s) used shall be explained in the change transmittal page.
   d. Change symbols from a previous change shall be deleted when a page is subsequently updated. Symbols shall show current updates only.
   e. [Deleted]
   f. Change symbols are not required for the following.

      (1) Indexes and tabular data where the update cannot be identified.
      (2) Blank space resulting from the deletion of text, an illustration, part of an illustration, or a table.
      (3) Correction of minor inaccuracies, such as spelling, punctuation, relocation of material, renumbering, etc., unless such correction changes the meaning of the information.

4.10.1.5. Change symbols for illustrations. A miniature pointing hand shall be used for illustrations (other than diagrams and schematics) to highlight the area containing the changed information.

   a. Changes confined to the same general area shall be indicated only once on the illustration.
   b. A vertical line next to changed text and callouts on illustrations may be used in lieu of a pointing hand.
   c. A vertical line next to changed material may be used on a chart or graph.

d. If a callout is deleted from an illustration, the word "DELETED" shall be placed after the appropriate number in the legend, if applicable. If a callout is deleted from an illustration without a legend, such as those used to supplement a RPSTL, the word "DELETED" shall be placed on the illustration at the end of the leader line. NOTE: Consideration should be given to showing the callout with a strikeout to indicate that it has been deleted.

e. When an illustration is changed, index numbers added between existing numbers shall be the same as the preceding index number with added alpha characters (e.g., 22A, 22B). This system shall also be used in basic manuals when errors are discovered so late in preparation that renumbering of all following index numbers would delay submittal. Index numbers with added alpha characters shall be eliminated for a complete revision.

f. Screens (shading), screened (shaded) boxes, or miniature pointing hands shall be used to highlight updated areas of diagrams and schematics.

g. When a figure has a figure number and title, a vertical line shall be placed to the left of the figure number and/or title.

4.10.1.6. Changes to RPSTL supporting information and TMs. Requirements shall apply with the following exceptions:

a. Deleted figures and items. When figures and items have been deleted, the cross-reference indexes shall be changed as necessary.

b. Item changes. Unless specified otherwise by the acquiring activity, an asterisk shall be placed to the left of the item no. column in the list adjacent to the line item indicating that an update has been made to the item and is reflected in the associated text, illustration, P/N index, or reference designator index.

DOCUMENT SUMMARY LIST

System/Item: M94 Muzzle Velocity System (MVS) and MVS Communication Adapter (MCA)

Identifies all first tier documents (cited in SOW)(applicable Data Item Descriptions (DID)). Also included are all referenced documents (2nd, (includes DID block 10 references), 3rd and lower tier), which have been tailored.

DOCUMENT CATEGORY:

   CATEGORY 1 - The requirements contained in the directly cited document are contractually applicable to the extent specified. Unless otherwise specified in the solicitation, contract, or contract modifications, all requirements contained in reference and subsequently referenced documents are contractually for guidance and information only.

   CATEGORY 2 - The requirements contained in the directly cited document and the referenced documents identified in the directly cited document are contractually applicable to the extent specified. Unless otherwise specified in the solicitation, contract, or contract modifications, all requirements contained in subsequently referenced documents within reference documents are contractually for guidance and information only.

   CATEGORY 3 - Unless otherwise specified in the solicitation, contract, or contract modifications, all requirements contained in the directly cited document and all reference and subsequently referenced documents are contractually applicable to the extent specified.

Document Number (Contract Reference) Applicable Tailoring	Document Title	Document Date/ Document Category
1a. N/A (Sec C, para 3.2.5.)	Statement of Work	N/A Cat 2
1b. DI-IPSC-81433A (Data Item No. A 001)	Software Requirements Specification (SRS)	15 Dec 1999 Cat 1
2a. N/A (Sec C, paras 3.2.6.1., 3.2.7.)	Statement of Work	N/A Cat 2
2b. DI-ILSS-80294A (Data Item No. A002)	Maintenance, Test and Support Equipment Requirements List	16 Jul 1990 Cat 1
3a. N/A (Sec C, para 3.2.7.1.)	Statement of Work	N/A Cat 2
3b. DI-IPSC-81434A (Data Item No. A003)	Interface Requirements Specifications (IRS)	15 Dec 1999 Cat 1
4a. N/A (Sec C, paras 4.1., 6.1.)	Statement of Work	N/A Cat 2
4b. DI-IPSC-80590A (Data Item No. A004)	Computer Program End Item Documentation	12 Jan 1994 Cat 1

DOCUMENT SUMMARY LIST

System/Item: M94 Muzzle Velocity System (MVS) and MVS Communication Adapter (MCA)

5a. MIL-HDBK-1221 (Sec C, para 7.1.)	Department of Defense Handbook for Evaluation of Commercial Off-the-Shelf Manuals	28 Aug 1995 Cat 2
5b. DI-TMSS-80527A (Data Item No. A005)	Commercial Off-the-Shelf (COTS) Manual and Associated Supplemental Data	21 May 1997 Cat 1

MIL-HDBK-1221 is for reference only.

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6. IEEE/EIA 12207 (Sec C, para 3.2.)	Industry Implementation of International Standard ISO/IEC 12207: 1995 Standard for Information Technology Software life cycle processes	Mar 1998

IEEE/EIA 12207 is for reference only.

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                    CONTRACT DATA REQUIREMENTS LIST
                       DD FORM 1423 (MECHANIZED)
              CATEGORY:  MISC     SYSTEM/ITEM: MVS/MCA
              TO CONTRACT/PR:

1.  Data Item No:
2.  Title Of Data Item:
3.  Subtitle:
4.  Authority:
5.  Contract Reference:
6.  Requiring Office:
7.  DD250 Required:
8.  APP Code:
9.  Distribution Statement Required:
10. Frequency:
11. As Of Date:
12. Date of 1st Submission:
13. Date of Subsequent Submission:
14. Distribution   A. Addressees  B. Draft Final
15. Total:
16. Remarks:
------------------------------------------------------------------
1.  A001
2.  SOFTWARE REQUIREMENTS SPECIFICATION (SRS)
3.
4.  DI-IPSC-81433A
5.  Section C, paragraph C.3.2.5.
6.  AMSTA-AR-FSF-I
7.  NO
8.
9.  N/A
10.
11.
12. See block 16.
13.
14. AMSTA-AR-QAT-R
15.
16. Document to be submitted as e-mail attachment in Microsoft Word
(.doc format) prior to Preliminary Design Review (PDR).
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E-MAIL: tgrealy@pica.army.mil

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PREPARED BY            DATE            APPROVED BY        DATE

Michael C. Angelos     22 Aug 2002
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                    CONTRACT DATA REQUIREMENTS LIST
                      DD FORM 1423 (MECHANIZED)
            CATEGORY:  MISC      SYSTEM/ITEM: MVS/MCA
            TO CONTRACT/PR:

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2.  Title Of Data Item:
3.  Subtitle:
4.  Authority:
5.  Contract Reference:
6.  Requiring Office:
7.  DD250 Required:
8.  APP Code:
9.  Distribution Statement Required:
10. Frequency:
11. As Of Date:
12. Date of 1st Submission:
13. Date of Subsequent Submission:
14. Distribution   A. Addressees  B. Draft Final
15. Total:
16. Remarks:
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1.  A002
2.  MAINTENANCE, TEST AND SUPPORT EQUIPMENT REQUIREMENTS LIST
3.
4.  DI-ILSS-80294A
5.  Section C, paragraphs C.3.2.6.1., C.3.2.7.
6.  AMSTA-AR-FSF-I
7.  NO
8.
9.  N/A
10.
11.
12. See block 16.
13.
14. AMSTA-AR-QAT-R
15.
16. Document to be submitted as e-mail attachment in Microsoft Word
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6.   Requiring Office:
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8.   APP Code:
9.   Distribution Statement Required:
10.  Frequency:
11.  As Of Date:
12.  Date of 1st Submission:
13.  Date of Subsequent Submission:
14.  Distribution   A. Addressees  B. Draft Final
15.  Total:
16.  Remarks:
-------------------------------------------------------------------
1.   A003
2.   INTERFACE REQUIREMENTS SPECIFICATION (IRS)
3.
4.   DI-IPSC-81434A
5.   Section C, paragraph C.3.2.7.1.
6.   AMSTA-AR-FSF-I
7.   NO
8.
9.
10.
11.
12.  See block 16.
13.
14.  AMSTA-AR-QAT-R
15.
16.  Document to be submitted as e-mail attachment in Microsoft Word
(.doc format) prior to Preliminary Design Review (PDR).

E-MAIL: tgrealy@pica.army.mil
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Michael C. Angelos     22 Aug 2002
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                       DD FORM 1423 (MECHANIZED)
              CATEGORY:  MISC     SYSTEM/ITEM: MVS/MCA
              TO CONTRACT/PR:


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2.  Title Of Data Item:
3.  Subtitle:
4.  Authority:
5.  Contract Reference:
6.  Requiring Office:
7.  DD250 Required:
8.  APP Code:
9.  Distribution Statement Required:
10. Frequency:
11. As Of Date:
12. Date of 1st Submission:
13. Date of Subsequent Submission:
14. Distribution   A. Addressees  B. Draft Final
15. Total:
16. Remarks:
-------------------------------------------------------------------
1.  A004
2.  COMPUTER PROGRAM END ITEM DOCUMENTATION
3.
4.  DI-IPSC-80590A
5.  Section C, paragraphs C.4., C.6.1.
6.  AMSTA-AR-QAT
7.  NO
8.
9.  N/A
10.
11.
12. See block 16.
13.
14. See block 16.
15.
16. Four copies of software to be delivered at final acceptance on
compact disk (CD).


Addressees:

TACOM-ARDEC
ATTN: AMSTA-AR-QAT (Tim Grealy)
Picatinny Arsenal, NJ 07806-5000

TACOM-RI
ATTN: AMSTA-LC-CFTC (Marsha Ashby)
Rock Island, IL 61299-7630



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Michael C. Angelos     22 Aug 2002
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                    CONTRACT DATA REQUIREMENTS LIST
                       DD FORM 1423 (MECHANIZED)
              CATEGORY:  MISC     SYSTEM/ITEM: MVS/MCA
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2.  Title Of Data Item:
3.  Subtitle:
4.  Authority:
5.  Contract Reference:
6.  Requiring Office:
7.  DD250 Required:
8.  APP Code:
9.  Distribution Statement Required:
10. Frequency:
11. As Of Date:
12. Date of 1st Submission:
13. Date of Subsequent Submission:
14. Distribution   A. Addressees  B. Draft Final
15. Total:
16. Remarks:
-----------------------------------------------------------------
1.  A005
2.  COMMERCIAL OFF-THE-SHELF (COTS) MANUAL AND
    ASSOCIATED SUPPLEMENTAL DATA
3.
4.  DI-TMSS-80527A
5.  Section C, paragraph C.7.1.
6.  AMSTA-LC-CFTC
7.  NO
8.
9.  N/A
10.
11.
12. See block 16.
13.
14. AMSTA-LC-CFTL, AMSTA-LC-CFTC
15.
16. Change 2 to be submitted as e-mail attachment in Microsoft Word
(.doc format) and basic manual incorporating Changes 1 & 2 as e-mail
attachment in Adobe Acrobat Portable Document Format (.pdf format).

Required changes identified during Val/Ver shall be incorporated and
delivered 30 days after Val/Ver.

 E-MAIL:   frenchd@ria.army.mil;  reynoldsw@ria.army.mil

Quantity 5 hard copies shall be delivered to the following addressee:
TACOM-RI
ATTN: AMSTA-LC-CFTL (Deneen French)
Rock Island, IL 61299-7630

PREPARED BY           DATE           APPROVED BY        DATE

Michael C. Angelos      22 Aug 2002
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